DATA SHEET

T 5861 EN

Type 3260 Three-way Valve

Types 3260/5857, 3260/5827, 3260/3374, 3260/SAM, 3260/5757-7, 3260/5724-8, 3260/5725-8 Electric Control Valves

Types 3260/2780, 3260/3372, 3260/3271, 3260/3277 Pneumatic Control Valves

Application

Control valves available as mixing or diverting valves for use in industrial applications as well as heating, ventilation and air-conditioning systems

DN 15 to 300 · PN 16 · Temperatures up to 150 °C



Fig. 1:
Type 3260/5857
Type 3260/5757-7



Fig. 2: *Type 3260/5827*



Fig. 3: *Type 3260/3374*



Fig. 4: *Type 3260/2780-2*

Special features

- Type 3260 Three-way Valve with either pneumatic or electric actuators (mixing or diverting valve)
- Type 3260 Three-way Valve combined with Type 5857 and TROVIS 5757-7 Electric Actuator (version with special spring)
- Valve and actuator connection:
  - DN 15 to 50: Force-locking
  - DN 65 to 300: Form-fit
- Type 3260 Three-way Valve in special version for oils (up to DN 125)
- Valves to protect panel heating according to DIN 4747 can also be combined with electric actuators with fail-safe action

Versions

Electric control valves		
Type 3260/5857	PN 16	DN 15 to 25
Type 3260/5827[1)]	PN 16	DN 15 to 80
Type 3260/3374[1)]	PN 16	DN 65 to 150
Type 3260/SAM-32	PN 16	DN 200 to 300
Electric control valves with electric actuator with process controller for heating and cooling applications		
Type 3260/5757-7	PN 16	DN 15 to 25
Type 3260/5724-8	PN 16	DN 15 to 50
Type 3260/5725-8	PN 16	DN 15 to 80
Pneumatic control valves		
Type 3260/2780-1	PN 16	DN 15 to 50
Type 3260/2780-2[2)]	PN 16	DN 15 to 50
Type 3260/3372	PN 16	DN 65 to 150
Type 3260/3271	PN 16	DN 65 to 80
		DN 200 to 300
Type 3260/3277[2)]	PN 16	DN 65 to 80

1) Electric actuators with fail-safe action: Type 5827-A, Type 5827-E, Type 3374-25/-35 and TROVIS 5725-8

2) Pneumatic actuator suitable for integrated positioner attachment

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Also available:

- Type 3260 Globe Valve, see Data Sheet ▶ T 5862
- Three-way valve with male thread connection for welding ends or threaded ends or with female threads, see Data Sheet ▶ T 5863

Principle of operation

The three-way valve is primarily used as a mixing valve. Diverting valves can also be delivered on request. In mixing valves, the process media to be mixed enter at valve ports **A** and **B**. The combined flow exits the valve at port **AB**. In diverting valves, the process medium enters at the valve port **AB** and the partial flows exit at ports **A** and **B**.

The cross-sectional area of flow between the seat and plug is determined by the position of the plug stem. The plug is moved by changing the control signal applied to the actuator.

The valve and actuator have a force-locking connection up to DN 50 and a form-fit connection in DN 65 and larger.

An intermediate insulating piece is available for insulated pipes.

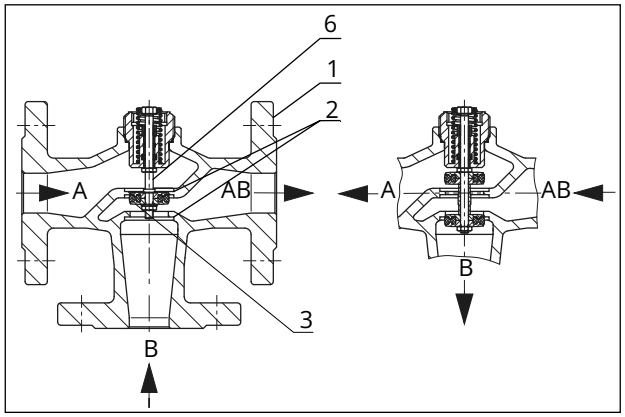


Fig. 5: *Functional drawing of Type 3260 (DN 15 to 50) · As a mixing valve (left) and diverting valve (right)*

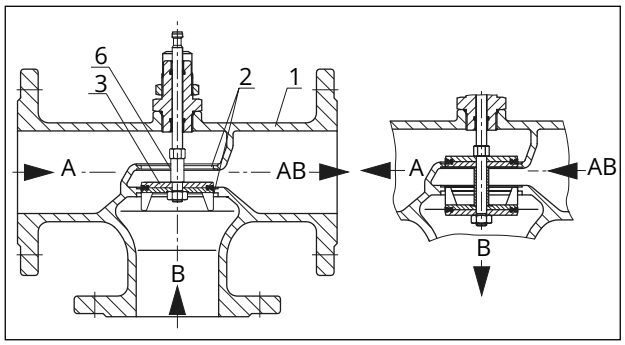


Fig. 6: *Functional drawing of Type 3260 (DN 65 to 150) · As a mixing valve (left) and diverting valve (right)*

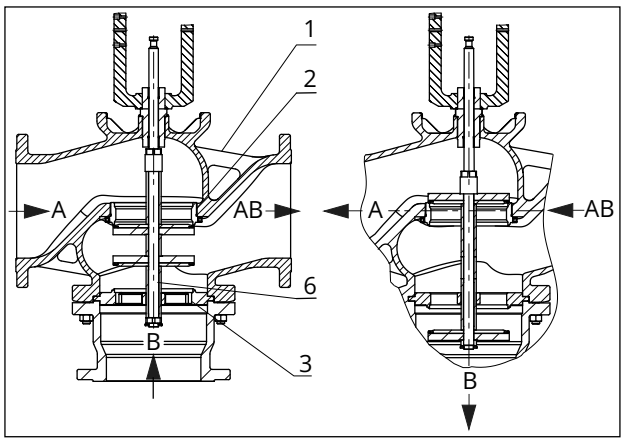


Fig. 7: *Functional drawing of Type 3260 (DN 200 to 300) · As a mixing valve (left) and diverting valve (right)*

Legend for Fig. 5 to Fig. 7

1	Valve body	3	Plug
2	Seat	6	Plug stem

Fail-safe positions

When the valve is combined with a pneumatic actuator with integrated springs or an electric actuator with fail-safe action, the control valve has two different fail-safe positions that become effective when the supply air or control signal fails:

- **Actuator stem extends:**
  When the signal pressure is reduced or the air supply fails, the springs move the actuator stem downward. Port **B** in mixing valves is closed and port **A** in diverting valves is closed.
- **Actuator stem retracts:**
  When the signal pressure is reduced or the air supply fails, the springs move the actuator stem upward. Port **B** in mixing valves is opened and port **A** in diverting valves is opened.

Electric actuators

The Types 5857, 5827, 3374 and SAM Electric Actuators can be controlled using a three-step signal. All electric actuators can also be controlled in the version with positioner by a 0/4 to 20 mA or 0/2 to 10 V signal. Various electrical accessories can be optionally installed.

Types 5827-A, 5827-E, 3374-25 and 3374-35 Actuators are able to perform a fail-safe action (see Table 5).

Refer to the data sheets for more details on the electric actuators:

- ▶ **T 5857:** Type 5857 Electric Actuator
- ▶ **T 5827:** Type 5827 Electric Actuator
- ▶ **T 8331:** Typ 3374 Electric Actuator
- ▶ **T 8330:** Type SAM Electric Actuator

Electric actuators with process controllers

Electric actuators with process controllers are a combination of an electric actuator and a digital process controller. The TROVIS 5757-7, TROVIS 5724-8 and TROVIS 5725-8 Actuators are suitable for heating and cooling applications.

TROVIS 5724-8 and TROVIS 5725-8 have two PID control modules and are ready-wired.

TROVIS 5725-8 is able to perform a fail-safe action (see Table 5).

Refer to the data sheets for more details on the electric actuators with process controller:

- ▶ **T 5757-7:** TROVIS 5757-7 Electric Actuator with Process Controller for heating and cooling applications
- ▶ **T 5724-8:** TROVIS 5724-8 Electric Actuator with Process Controller without fail-safe action and TROVIS 5725-8 with fail-safe action for heating and cooling applications

Pneumatic actuators

The Types 2780, 3271 and 3277 Pneumatic Actuators as well as the Type 3372 Electropneumatic Actuator work with various control signals (see Table 7). All actuators are available for fail-safe action “actuator stem extends (FA)” or “actuator stem retracts (FE)”.

The Types 2780-2 and 3277 Actuators are suitable for integral positioner attachment. Various optional accessories can be mounted onto the Type 3277 Actuator.

Types 3271 and 3277 Actuator are also available with handwheel.

Refer to the data sheets for more details on the pneumatic actuators:

- ▶ **T 5840:** Type 2780-1 and Type 2780-2Pneumatic Actuators
- ▶ **T 8310-X:** Type 3271 and Type 3277 Pneumatic Actuators
- ▶ **T 8313:** Type 3372 Electropneumatic Actuator

Installation of the control valve

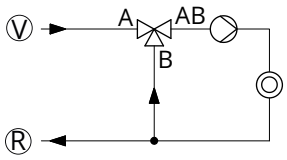
The control valves can be mounted in any position. However, the electric actuators (with process controller) must not be suspended downwards.

Make sure that the ambient temperature at the point of installation does not exceed or fall below the permissible temperature limits specified for each actuator. Make sure that the inlet and outlet flows of the plant are correctly assigned to ports A, B and AB. Table 1 schematically illustrates a few typical applications.

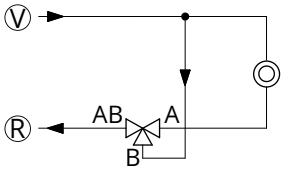
Force-locking connection: If the control valve is to be insulated, the actuator and the coupling nut must not be insulated as well. Make sure the permissible ambient temperature is not exceeded. If necessary, an intermediate insulating piece must be used. Do not insulate it over 25 mm.

Table 1: *Typical installations*

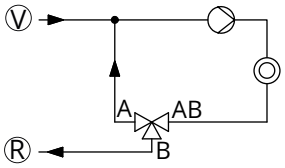
Mixing valve for mixing service



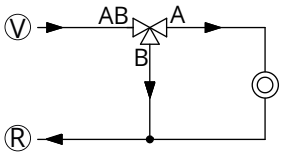
Mixing valve for diverting service



Diverting valve for mixing service



Diverting valve for diverting service



A	Process medium A
B	Process medium B
AB	Mixture of process medium A and process medium B
Ⓥ	Flow
Ⓡ	Return

Ordering text

Type .... Control Valve:

❑ 3260/5857, ❑ 3260/5827-..., ❑ 3260/3374-...,
❑ 3260/SAM-..., ❑ 3260/5757-7, ❑ 3260/5724-8,
❑ 3260/5725-8, ❑ 3260/2780-1, ❑ 3260/2780-2

❑ 3260/3372

❑ 3260 with Type 3271 Actuator

❑ 3260 with Type 3277 Actuator

- Valve type: ❑ mixing valve, ❑ diverting valve
- Nominal size: DN ...
- K_{VS} coefficient: ...
- Medium temperature: ...
- Special version for oils: ❑ yes, ❑ no

Further specifications on the electric actuator

- Control: ❑ three-step signal, ❑ positioner
- Supply voltage ...
- Electric additional equipment ...

Further specifications on the pneumatic actuator

- Actuator area: ...
- Bench range: ...
- Signal pressure connection for Type 2780-1:
  ❑ G ⅛, ❑ ⅛ NPT
- Fail-safe action: ❑ stem extends (FA), ❑ stem retracts (FE)

Table 2: *Technical data for Type 3260 (three-way valve)*

Nominal size	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Pressure rating	PN	16													
Permissible temperature range	°C	5[1] to 150[1]													
Seat-plug seal		Soft seal													
Rated travel	mm	6			12			15		30			60		
Mixing valve		•			•			•		•			•		
Diverting valve		•			•			•		•			•		
Leakage class according to DIN EN 60534-4		IV (≤0.01 % of K_{VS})													
Conformity[2]		CE													

1) Use an intermediate insulating piece (1990-1712) for valves in DN 15 to 50 or (1991-4686) for valves in DN 65 to 150:
- For medium temperatures between -10 and +5 °C (actuators according to Table 5)
- In networks with a constant medium temperature >135 °C (TROVIS 5724-8, TROVIS 5725-8 and Type 5827 Actuators)
- For liquids >120 °C (TROVIS 5757-7 and Type 5857 Actuators)

2) Field of applications are the control of Group II fluids according to Pressure Equipment Directive 2014/68/EU. However, this does not include steam and neutral vapors. Footnote 1) on the permissible temperature range and the corresponding details applies.

Table 3: *Materials for Type 3260 (three-way valve)*

Nominal size	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Valve body		Cast iron EN-GJL-250 (GG-25)													
Seat		Cast iron EN-GJL-250 (GG-25)											1.4006/ 1.0619		1.4301/ 1.0619
Plug		Brass · CC754 · CW617											1.4404		1.4301
Plug stem		Stainless steel · 1.4305											1.4305		
Seat-plug seal		EPDM (standard) · FKM (special version up to DN 125)													
Stem seal		EPDM seal ring													
Special version for oils		FKM seal										–			
Rod-type yoke		–						See actuator					–		

Table 4: *Nominal sizes, K_{VS} coefficients and seat Ø for Type 3260 (three-way valve)*

Nominal size	DN	15				20	25	32	40	50	65	80	100	125	150	200	250	300
K_{VS} coefficient		1	1.6	2.5	4	6.3	10	16	25	40	60	80	160	250	250/ 320[1]	630	800	1200
Seat Ø	mm	16	16	16	16	20	24	32	40	40	70	70	100	130	130	207	207	276
Rated travel	mm	6	6	6	6	6	6	12	12	12	15	15	30	30	30	60	60	60

1) Direction of flow B ↔ AB with maximum K_{VS};
Direction of flow A ↔ AB with reduced K_{VS}

Table 5: *Available versions and possible combinations (valve/actuator)*

Type 3260 Three-way Valve/actuator																	
Type/ TROVIS	Fail-safe action: actuator stem		Details in	Nominal size DN													
	Extends	Retracts		15	20	25	32	40	50	65	80	100	125	150	200	250	300
Electric actuators																	
5857[1]	–	–	▶ T 5857	•	•	•	–	–	–	–	–	–	–	–	–	–	–
5827-N1[2]	–	–	▶ T 5827	•	•	•	–	–	–	–	–	–	–	–	–	–	–
5827-A1[2]	•	–	▶ T 5827	•	•	•	–	–	–	–	–	–	–	–	–	–	–
5827-E1[2]	–	•	▶ T 5857	•	•	•	–	–	–	–	–	–	–	–	–	–	–
5827-N2[2]	–	–	▶ T 5827	–	–	–	•	•	•	–	–	–	–	–	–	–	–
5827-A2[2]	•	–	▶ T 5827	–	–	–	•	•	•	–	–	–	–	–	–	–	–
5827-E2[2]	–	•	▶ T 5827	–	–	–	•	•	•	–	–	–	–	–	–	–	–
5827-N3[2][5]	–	–	▶ T 5827	–	–	–	–	–	–	•	•	–	–	–	–	–	–
3374-11	–	–	▶ T 8331	–	–	–	–	–	–	•	•	–	–	–	–	–	–
3374-10	–	–	▶ T 8331	–	–	–	–	–	–	•	•	•	•	•	–	–	–
3374-25[3]	•	–	▶ T 8331	–	–	–	–	–	–	•	•	•	•	•	–	–	–
3374-35[3]	–	•	▶ T 8331	–	–	–	–	–	–	•	•	•	•	•	–	–	–
SAM-32[4][7]	–	–	▶ T 8330	–	–	–	–	–	–	–	–	–	–	–	•	•	•
Electric actuators with process controller for heating and cooling applications																	
5757-7[1]	–	–	▶ T 5757-7	•	•	•	–	–	–	–	–	–	–	–	–	–	–
5724-810	–	–	▶ T 5724-8	•	•	•	–	–	–	–	–	–	–	–	–	–	–
5724-820	–	–	▶ T 5724-8	–	–	–	•	•	•	–	–	–	–	–	–	–	–
5724-830[2][5]	–	–	▶ T 5724-8	–	–	–	–	–	–	•	•	–	–	–	–	–	–
5725-810	•	–	▶ T 5724-8	•	•	•	–	–	–	–	–	–	–	–	–	–	–
5725-820	•	–	▶ T 5724-8	–	–	–	•	•	•	–	–	–	–	–	–	–	–
Pneumatic actuators																	
2780-1	•	•	▶ T 5840	•	•	•	•	•	•	–	–	–	–	–	–	–	–
2780-2	•	•	▶ T 5840	•	•	•	•	•	•	–	–	–	–	–	–	–	–
3372[6]	•	•	▶ T 8313	–	–	–	–	–	–	•	•	•	•	•	–	–	–
3271[3][4]	•	•	▶ T 8310-1	–	–	–	–	–	–	•	•	–	–	–	•	•	•
3277[3]	•	•	▶ T 8310-1	–	–	–	–	–	–	•	•	–	–	–	–	–	–

1) Type 3260 Three-way Valve combined with this actuator as version with special spring

2) Versions with halved transit time on request

3) Type 3260 Three-way Valve in combination with these actuators with rod-type yoke:
DN 65 to 80: order no. 1890-8696; for Type 3271 with 175v2 cm² actuator area additionally order no. 0250-1450
DN 100 to 150: order no. 1400-8822

4) DN 200 to 300: these valves do not need an extra rod-type yoke.

5) Type 3260 Three-way Valve in combination with this actuator with rod-type yoke, order no. 1400-7414

6) DN 65 to 80: with integrated i/p converter or with Type 3725 Positioner (direct attachment)
DN 100 to 150: with Type 3725 Positioner (direct attachment)

7) The mounting accessory (1400-9565) is additionally required to connect Type SAM-32 Actuator.

Table 6: *Permissible differential pressures (all pressures in bar) · Type 3260/... Electric Control Valves*

Type/TROVIS Actuator		5857, 5757-7	5827, 5724, 5725	3374		3374	SAM
				-11[3]	-10[3]	-25/-35	-32
DN	K_{VS} coefficient	Δp when p_2 = 0 bar					
15	1 · 1.6 · 2.5 · 4	4.0	4.0	–	–	–	–
20	6.3	2.6	4.0	–	–	–	–
25	10	1.8	4.0	–	–	–	–
32	16	–	1.7	–	–	–	–
40	25	–	1.1	–	–	–	–
50	40	–	1.1	–	–	–	–
65	60	–	1.3[1]	4.0	4.0	4.0	–
80	80	–	1.3[1]	4.0	4.0	4.0	–
100	160	–	–	–	2.8	1.9	–
125	250	–	–	–	1.7	1.1	–
150	250/320[2]	–	–	–	1.7	1.1	–
200	630	–	–	–	–	–	3.1
250	800	–	–	–	–	–	3.1
300	1200	–	–	–	–	–	1.6

1) Only with Type 5827-N3 Electric Actuator

2) Direction of flow B → AB with maximum K_{VS};
Direction of flow A → AB with reduced K_{VS}

3) The maximum differential pressure is reduced by 50 % when actuators with positioners in the version with faster motors are used.

Table 7: *Permissible differential pressures (all pressures in bar) · Type 3260/... Pneumatic Control Valves*

Type ... Actuator		2780-1	2780-2	3372				3271 and 3277				3271		
Actuator area[6]	**cm²**	**120**	**120**	**120**	**120**[4]	**350**[4]	**350**[5]	**175v2**	**175v2**	**350**	**350**	**1000**		**1400-60**
Bench range min.[1]	**bar**	**0.4**	**0.4**	**1.4**	**2.1**	**0.8**	**0.9**	**0.6**	**1.3**	**0.4**	**0.6**	**0.8**	**1.0**[4]	**1.1**
Bench range max.[1]	**bar**	**1.0**	**2.0**	**2.3**	**3.3**	**1.3**	**1.65**	**3.0**	**2.9**	**2.0**	**3.0**	**2.8**	**3.2**	**2.4**
Maximum supply pressure	**bar**	**1.4**[2]	**2.4**[2]	**4.0**	**5.0**	**2.3**	**2.5**	**3.7**	**4.3**	**2.5**	**3.7**	**4.0**	**4.0**	**4.0**
DN	K_{VS} coefficient	Δp when p_2 = 0 bar												
15	1 · 1.6 · 2.5 · 4	4.0	4.0	–	–	–	–	–	–	–	–	–	–	–
20	6.3	4.0	4.0	–	–	–	–	–	–	–	–	–	–	–
25	10	4.0	4.0	–	–	–	–	–	–	–	–	–	–	–
32	16	1.7	1.7	–	–	–	–	–	–	–	–	–	–	–
40	25	1.1	1.1	–	–	–	–	–	–	–	–	–	–	–
50	40	1.1	1.1	–	–	–	–	–	–	–	–	–	–	–
65	60	–	–	3.8	4.0	–	–	2.1	4.0	3.0	4.0	–	–	–
80	80	–	–	3.8	4.0	–	–	2.1	4.0	3.0	4.0	–	–	–
100	160	–	–	–	–	3.1	3.1	–	–	–	–	–	–	–
125	250	–	–	–	–	1.8	1.8	–	–	–	–	–	–	–
150	250/320[3]	–	–	–	–	1.8	1.8	–	–	–	–	–	–	–
200	630	–	–	–	–	–	–	–	–	–	–	2.2	3.0	4.0
250	800	–	–	–	–	–	–	–	–	–	–	2.2	3.0	4.0
300	1200	–	–	–	–	–	–	–	–	–	–	1.2	1.7	2.2

1) Other bench ranges only on request

2) Only with "actuator stem retracts" fail-safe action. Max. 4 bar with "actuator stem extends" fail-safe action.

3) Direction of flow B → AB with maximum K_{VS};
Direction of flow A → AB with reduced K_{VS}

4) Actuator stem extends

5) Actuator stem retracts

6) v2 is added to the actuator area (e.g. 175v2 cm²) to indicate that Type 3271 and Type 3277 Actuators have a full diaphragm.

Table 8: *Face-to-face dimensions and overall heights for Type 3260 (three-way valve)*

Nominal size		**DN**	**15**	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**
L1		mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850
L2		mm	70	80	85	100	105	120	130	140	150	200	210	450	450	550
H1 with Type/TROVIS .... Electric Actuator	5857, 5757-7	mm	131	131	131	–	–	–	–	–	–	–	–	–	–	–
	5724-8, 5725-8	mm	158	158	158	168	168	168	–	–	–	–	–	–	–	–
	5827	mm	161	161	161	171	171	171	–	–	–	–	–	–	–	–
	5827-N3	mm	–	–	–	–	–	–	277	277	–	–	–	–	–	–
	3374-10/-11	mm	–	–	–	–	–	–	365	365	406	406	406	–	–	–
H2 with Type .... Electric Actuator	3374-25/-35	mm	–	–	–	–	–	–	265	265	306	306	306	–	–	–
	SAM-32	mm	–	–	–	–	–	–	–	–	–	–	–	519	519	556
H1 with Type .... Pneumatic Actuator	2780-1	mm	161	161	161	171	171	171	–	–	–	–	–	–	–	–
	2780-2	mm	261	261	261	271	271	271	–	–	–	–	–	–	–	–
	3372 (120 cm²)	mm	–	–	–	–	–	–	307	307	–	–	–	–	–	–
	3372 (350 cm²)	mm	–	–	–	–	–	–	–	–	382	382	382	–	–	–
H2 with Type .... Pneumatic Actuator	3271	mm	–	–	–	–	–	–	265	265	–	–	–	519	565	556
	3277	mm	–	–	–	–	–	–	265	265	–	–	–	–	–	–

Table 9: *Weights for Type 3260 (three-way valve)*

Nominal size	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Weight (without actuator)	kg (approx.)	4.0	5.0	5.5	8.5	10	12	20	23	38	50	65	266	285	410

Table 10: *Weights for electric actuators*

Type		5857	5827-N	5827-A/-E	3374-10/-11	3374-25/-35	SAM-32
Weight	kg (approx.)	0.7	0.75	1.0	3.2	6.2	13

Table 11: *Weights for electric actuators with process controller*

Type		5757-7	5724-8	5725-8
Weight	kg (approx.)	0.7	1.1	1.3

Table 12: *Dimensions and weights for pneumatic actuators*

	Type	2780	3372		3271		3271		3277	
Actuator area[1]	**cm²**	**120**	**120**	**350**	**175v2**	**350**	**1000**	**1400-60**	**175v2**	**350**
H'	mm	–	–	–	78	82	313	197[3]	78	82
H7	mm	–	–	–	–	–	90[4]	90[4]	–	–
H3[2]	mm	110	110	110	110	110	610	610	110	110
Diaphragm ØD	mm	168	168	280	215	280	462	530	215	280
Supply air connection	a	G ⅛	G ¼	G ¼	G ¼	G ⅜	G ¾	G ¾	G ¼	G ⅜
Weight	kg (approx.)	2	3.7	15	6	8	80	70	10	12

1) v2 is added to the actuator area (e.g. 175v2 cm²) to indicate that Type 3271 and Type 3277 Actuators have a full diaphragm.

2) Minimum clearance required to remove the actuator

3) Height with welded-on lifting eyelet or height of eyebolt according to DIN 580. Further information on lifting eyelets can be found in Data Sheets ▶ T 8310-1, ▶ T 8310-2 and ▶ T 8310-3.

4) Height H increases to 243 mm for special version with female thread.

Dimensional drawings of electric control valves (three-way valve)

Dimensions in mm

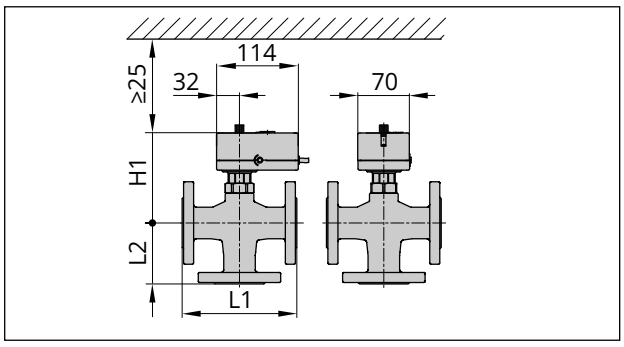


Fig. 8: *Type 3260/5857, Type 3260/5757-7 · DN 15 to 25*

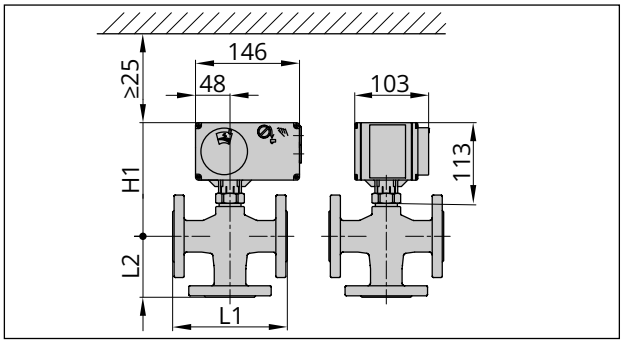


Fig. 9: *Type 3260/5724-8, Type 3260/5725-8 · DN 15 to 50*

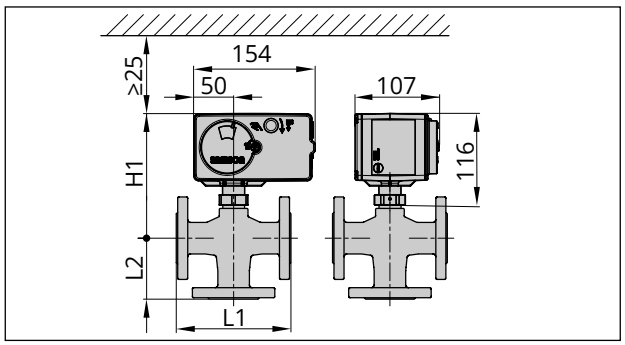


Fig. 10: *Type 3260/5827 · DN 15 to 50*

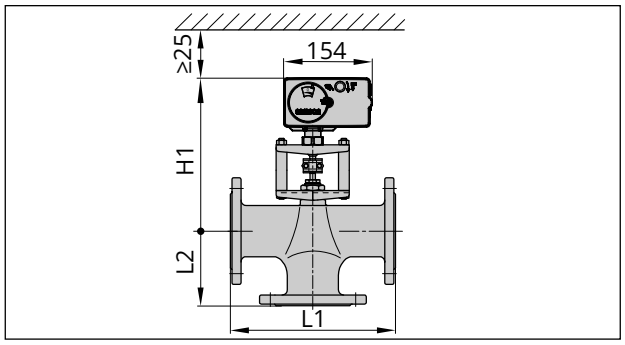


Fig. 11: *Type 3260/5827-N3 · DN 65 and 80*

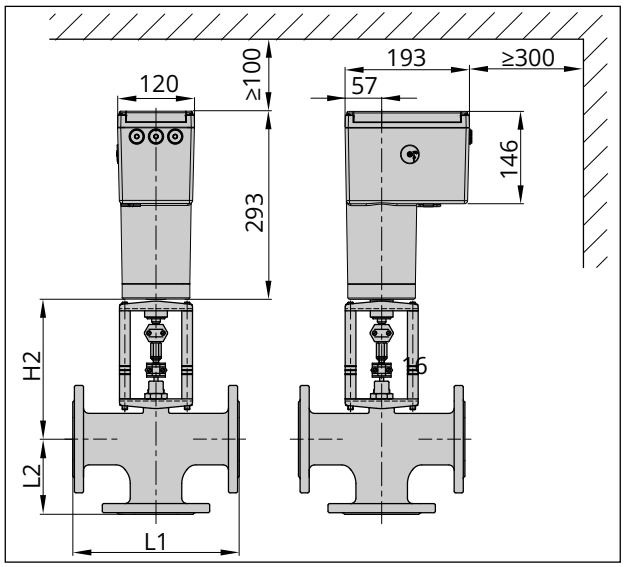


Fig. 12: *Type 3260/3374-25 and -35 · DN 65 to 150*

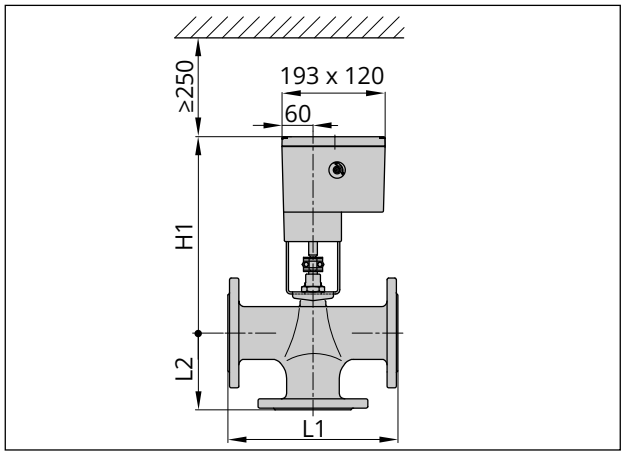


Fig. 13: *Type 3260/3374-10 and -11 · DN 65 to 150*

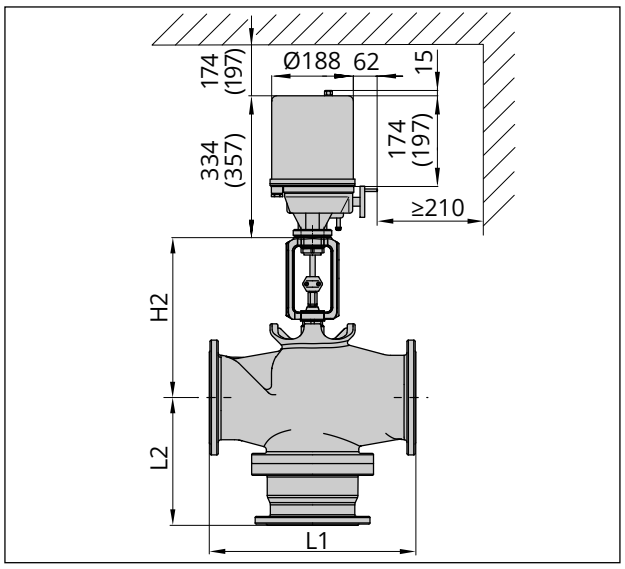


Fig. 14: *Type 3260/SAM-32 · DN 200 to 300 · Dimensions in parentheses apply to actuator with positioner*

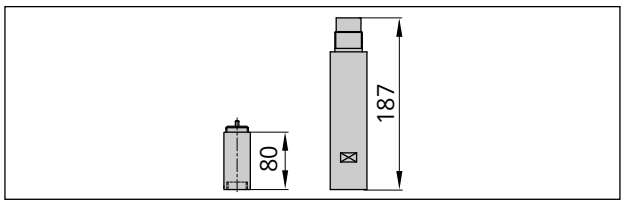


Fig. 15: *Intermediate insulating piece*
Material number 1990-1712 · DN 15 to 50 (left)
Material number 1991-4686 · DN 65 to 150 (right)

Dimensional drawings of pneumatic control valves (three-way valve)

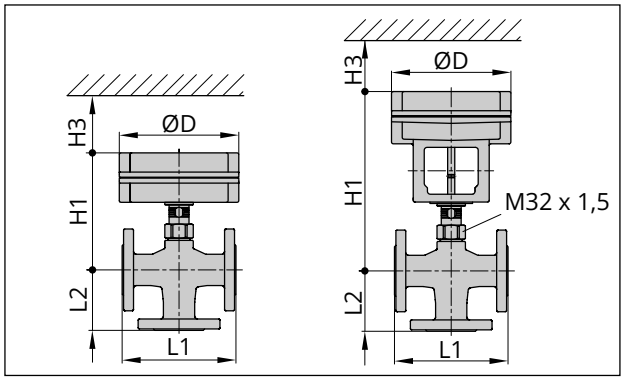


Fig. 16: *Left: Type 3260/2780-1 · DN 15 to 50*
Right: Type 3260/2780-2 · DN 15 to 50

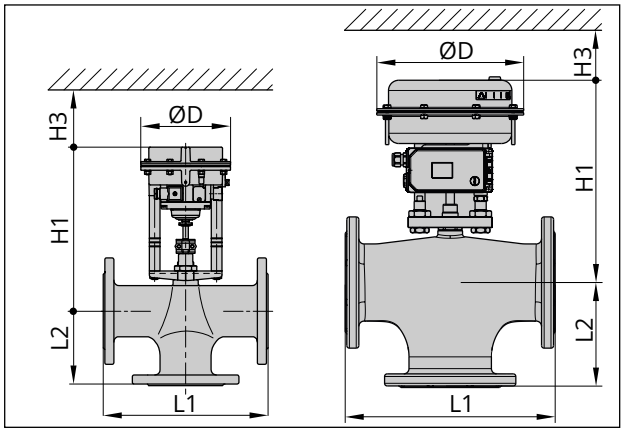


Fig. 17: *Left: Type 3260/3372 (120 cm²) · DN 65 to 80*
Right: Type 3260/3372 (350 cm²) · DN 100 to 150

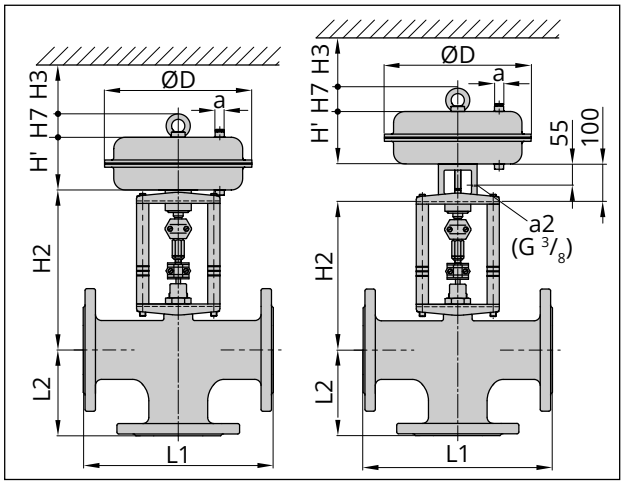


Fig. 18: *Left: Type 3260/3271 · DN 65 to 80*
Right: Type 3260/3277 · DN 65 to 80

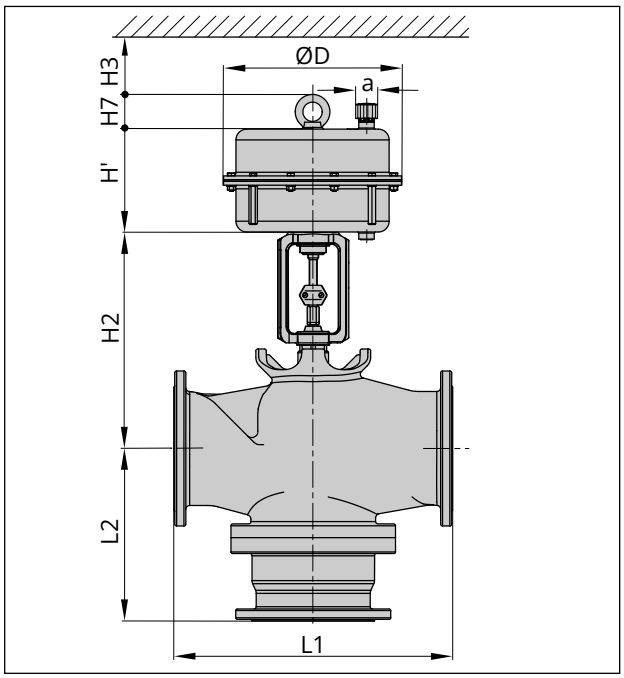


Fig. 19: *Type 3260/3271 · DN 200 to 300*